

TIMELINEZ

VOLUME 9

ISSUE 01

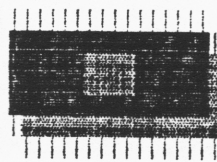
JAN - APR 1990

\$3.00

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Sinclair

VIEW FROM RANTOP



SPECIAL ANNIVERSARY ISSUE

Welcome to the ninth (9) volume of TIMELINEZ. This issue has started out as a crawl since the purchase of American Micro Systems during the latter part of December, 1990. In the last issue, the BOUND-UP newsletter was voiced to members as the new home for TIMELINEZ. This can not be with the foundering of S.M.U.G. So to be true to the four (4) clubs supporting this newsletter, TIMELINEZ will continue as before. Make all N/L exchanges and monetary correspondence to:

TIMELINEZ
P.O. BOX 1312
Pacifica, CA 94044

ATTN: George Mockridge

For articles to be printed with-
in TIMELINEZ and letters to the
editor, write to:

Andrew Hradesky

975 Nolte Drive West
Colorado Springs, CO 80916
(719) 591-6773

Write all checks or
money-orders in care
of **George Mockridge**.

This years subscrip-
tion rate will cover
three (3) issues for
\$9.00.

Happy
TIMEX'n

VOYAGER'S INCREDIBLE JOURNEY

With

The **LITTLE COMPUTER** that **COULD**

by
Sharon Begley
and
Mary Hager

Condensed from **NEWSWEEK**

by
READER'S DIGEST

Compiled by the **NITE-TIMES NEWS**
Volume 4, Number 1

With nothing but a radio transmitter to herald its arrival, a gawky aluminum bird swooped over the north pole of the planet Neptune in August of 1989. Streaking through the remote reaches of the solar system, the unmanned spacecraft Voyager 2 sent stunning photos and data 2.8 billion miles to the Jet Propulsion Laboratory (JPL) in Pasadena, Calif., where astronomers eagerly awaited an encounter with the blue planet. Its main mission completed, Voyager turned Neptune's gravitational force into a celestial slingshot and sped toward a rendezvous with infinity.

For 12 years Voyager 2 has soared through the solar system, sending back spectacular photos of Jupiter, Saturn, Uranus and Neptune, along with more than five trillion bits of scientific data.

Voyager 2 has proved to be the most successful space probe ever launched. Yet when the 1819-pound craft rocketed from Cape Canaveral on August 20, 1977, and pointed itself toward its place in history, the trip was one heart-stopper after another. A radio receiver malfunctioned, and then the backup became tone deaf, unable to lock onto a particular frequency. Controllers had to predict what Voyager could hear on the basis of the spacecraft's temperature, distance and motion. After the Jupiter flyby, a silicon chip failed, wiping out three percent of the computer's memory. At Saturn, the scan platform that holds the cameras and other instruments jammed; but the lubricant seeped back into the gears in time for the meeting with Uranus. Somehow the geriatric Voyager 2, arthritic and partially deaf, managed to reach Neptune.

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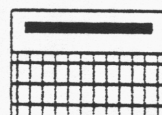
Support For sinclair

Z881 - spectra - 01

and

TIMEX sinclair

1000 - 1500 - 2068



CAMBRIDGE

Z 88

computers

Steering Voyager within 3000 miles of the planet's cloud tops, at 61148 m.p.h., required some of the most complicated engineering NASA has ever undertaken. For years flight jockeys at JPL, where the craft was designed and built, had fine tuned its trajectory. When Voyager finally reached Neptune, it was just 21 miles wide of where the scientists expected it to be - the cosmic equivalent of sinking a 2260 mile putt. "Not bad shooting", said project manager Norman Haynes.

Over the next years, NASA's computer aces had radioed up so many improvements to the on-board computer that the craft had essentially received a long-distance brain transplant many times. [This was only possible because of 1977 vintage 8 bit. "Little Computer that Could" had only 64K of addressable memory. Program managers stated that had the craft contained todays higher tech 16 or 32 bit processors, with all the RAM that they can address, their programmers would have had an even more monumental task for, as programmers are given more space to write in, they feel compelled to use as much of it as they possibly can!]

As Voyager closed in on Neptune, JPL engineers worked round the clock to radio instructions. But they did not know the exact location of the debris encircling the planet. Since it takes over four hours for signals to travel between Earth and Neptune, there was no chance for last-minute fixes: a collision could have doomed the mission. Fortunately, Voyager managed to avoid the orbiting junk.

The data arrived on a radio signal so weak - a ten quadrillionth of a watt - that 38 giant radio antennas on four continents were used to catch Voyager's whispered message. And what a message it was. Neptune turned out to be a dynamic, stormy world. Cloaked in a thick haze of hydrogen and helium, the planet is streaked by 1500 m.p.h. winds that push clouds of frozen methane. A tremendous storm system, a counter-cyclone as big across as Earth and christened the Great Dark Spot, marks the southern hemisphere.

Voyager's view of Neptune was almost upstaged by the planet's largest moon, Triton, called "the most curious thing we've ever seen" by Voyager geologist Laurence Soderblom. Already known as an astronomical renegade because it is the only large moon in the solar system whose orbit is in the opposite direction of its parent planet's rotation. Triton showed a face mottled like the finest Italian pink marble.

Triton seemed to have a history like ice cream carried home in August: frozen, melted, then frozen again. Perhaps it once was a planet, only to be drawn out of its solar orbit by Neptune's gravitational embrace. [Voyager 2 found signs of icy volcanism and rough patches caused by Tritons Quakes. It found six previously unknown moons around Blue Neptune bringing

the known total to eight. The spacecraft also discovered at least four rings around the planet. Said Voyager geologist Laurence Soderblom: "What a way to leave the solar system!"]

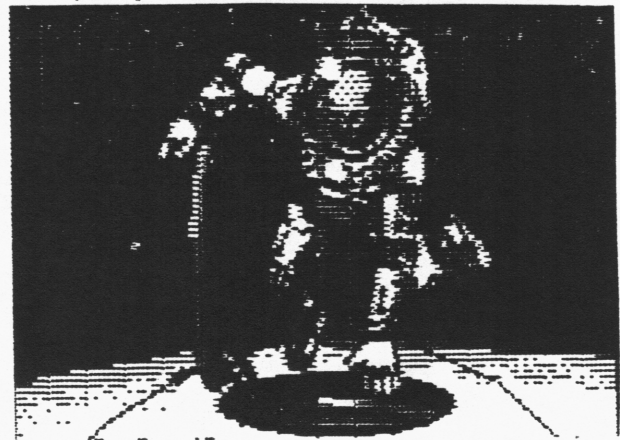
The new finds came so quickly that trying to make sense of them all was like trying to drink from a fire hose. The solar system's violent history is no-where more evident than in the rings and moons Voyager kept discovering, first around Jupiter and Saturn, then Uranus and Neptune. "Voyager focused our attention on the importance of collision", says chief project scientist Edward Stone. Each cosmic crash, a potent sculptor of the solar system, would produce a different kind of ring, ranging from the luminous bands around Saturn to the 11 narrow, sharply bounded rings of Uranus.

The primary mission now completed, Voyager 2's cameras, infrared detector and photopolarimeter was turned off in the latter part of 1990. The electricity conserved will power instruments that will measure the exotic fields and subatomic particles littering the route to interstellar space. By 2020, Voyager 2 will probably fall silent, its generators too feeble to power communications. In the year 40,176 it should come within 1.7 light years (one light year equals six trillion miles - the distance light travels in one year) of the star Ross 248, a cool, red speck of twinkling gas. In the year 236,036, Voyager 2 will pass within 4.3 light years of Sirius.

The chances are small, but one of these stars might have a planet with beings intelligent enough to detect the tiny, silent wanderer. If they retrieve Voyager, they will find, mounted on its side, a gold plated copper disc, complete with stylus and cartridge. If they figure out how to play it, they will hear greetings in 60 Earth languages and one whale dialect, as well as the natural sounds of the planet - thunder clapping, frogs croaking and a newborn baby crying.

If the craft encounters no one, it will float forever through the Milky Way, an emissary of the curious earthlings who launched it, hoping to make their mark in the vastness of cosmic time.

[I hope this article makes you owners of 8 bit machines a bit more reluctant to part with your trusty companions.]



Make checks or m.o. payable to
CHUCK RIDGWAY

RE-MORSE-FUL ME CONTINUED...

```

10 REM ..MR. MORSE'S CODE
   ..LOAD "CODE"

20 REM ..BY GERTIE ANDERSSON
   ..8/90

30 GO SUB 7000: REM ..UDG
40 GO SUB 8000: REM ..INTRO
50 REM ..THE CODE
60 LET V=5: LET H=0
70 LET U=3: LET H=0
80 PRINT "INTERNATIONAL MORSE"

90
100
110
120
130
140
150
160
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200
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220
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810
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830
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870
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890
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910
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930
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950
960
970
980
990

FOR I=65 TO 90
  PRINT AT U,H:CHR$(I) " "
  GO SUB (I*10)+1000
  LET U=U+1
  IF U=21 THEN LET H=15: LET
  NEXT I
  LET U=11
  FOR I=48 TO 57
    PRINT AT U,H:CHR$(I) " "
    GO SUB (I*10)+1000
    LET U=U+1
  NEXT I
  GO TO 5000
  REM ..ENCODING MESSAGE
  INPUT "TYPE IN MESSAGE. NO
  PUNCTUATION MARKS":E$
  LET L=LEN E$: LET A=1
  FOR I=1 TO L
    LET C=CODE E$(A TO A)*10+10
    GO SUB C
    LET P=A+1
    NEXT I
    GO TO 5000
  REM ..DECODING MESSAGE
  CLS: PRINT "SPECIAL INSTRU
  CTIONS FOR DECOD- ING MESSAGE:"
  PRINT "BE SURE COMPUTER IS
  IN GRAPHICS MODE. ONLY FOUR KEY
  S ARE USED:"
  PRINT "M, N, SPACE BAR AND
  ENTER. M, THE WIDER LETTER, IS
  "DAH", THE
  PRINT "LONGER CODE CHARACTE
  R, AND N IS DIT, PRESS SPACE BAR
  FOR SPACE BETWEEN WORDS OR ""/
  "" IN THIS PROGRAM."
  PRINT "BE SURE TO TYPE IN
  ONE SPACE AFTER EACH CODE LETT
  ER:"
  PRINT "" MNMNSpace ENTE
  R
  PRINT "AT END OF MESSAGE TA
  KE COMPUTER OUT OF GRAPHICS MODE
  AND TYPE ""0""."
  PRINT "READY? PUT COMPUTER
  IN GRAPHICS MODE AND ENTER ":"
  INPUT X$: CLS
  INPUT "ENTER CODE ":D$
  IF D$="0" THEN GO TO 5000
  IF D$="" THEN PRINT ""
  GO SUB 3000
  GO TO 500

```

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1000 REM ..ENCODING
1100 PRINT " / ": RETURN
1200 PRINT " .. ": RETURN : R
1300 PRINT " .. ": RETURN : R
1400 PRINT " .. ": RETURN : R
1500 PRINT " .. ": RETURN : R
1600 PRINT " .. ": RETURN : R
1700 PRINT " .. ": RETURN : R
1800 PRINT " .. ": RETURN : R
1900 PRINT " .. ": RETURN : R
2000 PRINT " .. ": RETURN : R
2100 PRINT " .. ": RETURN : R
2200 PRINT " .. ": RETURN : R
2300 PRINT " .. ": RETURN : R
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8200 PRINT " .. ": RETURN : R
8300 PRINT " .. ": RETURN : R
8400 PRINT " .. ": RETURN : R
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8600 PRINT " .. ": RETURN : R
8700 PRINT " .. ": RETURN : R
8800 PRINT " .. ": RETURN : R
8900 PRINT " .. ": RETURN : R
9000 PRINT " .. ": RETURN : R
9100 PRINT " .. ": RETURN : R
9200 PRINT " .. ": RETURN : R
9300 PRINT " .. ": RETURN : R
9400 PRINT " .. ": RETURN : R
9500 PRINT " .. ": RETURN : R
9600 PRINT " .. ": RETURN : R
9700 PRINT " .. ": RETURN : R
9800 PRINT " .. ": RETURN : R
9900 PRINT " .. ": RETURN : R

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CONTINUED NEXT PAGE =>

RE-MORSE-FUL HE CONTINUED...

```

3000 REM ..DECODING
3010 IF D$="." THEN PRINT "A"
3020 IF D$="...." THEN PRINT "B"
3030 IF D$="....." THEN PRINT "C"
3040 IF D$="...." THEN PRINT "D"
3050 IF D$="." THEN PRINT "E"
3060 IF D$="....." THEN PRINT "F"
3070 IF D$="...." THEN PRINT "G"
3080 IF D$="....." THEN PRINT "H"
3090 IF D$="." THEN PRINT "I"
3100 IF D$="....." THEN PRINT "J"
3110 IF D$="...." THEN PRINT "K"
3120 IF D$="....." THEN PRINT "L"
3130 IF D$="." THEN PRINT "M"
3140 IF D$="...." THEN PRINT "N"
3150 IF D$="....." THEN PRINT "O"
3160 IF D$="....." THEN PRINT "P"
3170 IF D$="....." THEN PRINT "Q"
3180 IF D$="...." THEN PRINT "R"
3190 IF D$="...." THEN PRINT "S"
3200 IF D$="." THEN PRINT "T"
3210 IF D$="...." THEN PRINT "U"
3220 IF D$="....." THEN PRINT "V"
3230 IF D$="...." THEN PRINT "W"
3240 IF D$="....." THEN PRINT "X"
3250 IF D$="....." THEN PRINT "Y"
3260 IF D$="....." THEN PRINT "Z"
3270 IF D$="....." THEN PRINT " "
3280 IF D$="....." THEN PRINT " "
3290 IF D$="....." THEN PRINT " "
3300 IF D$="....." THEN PRINT " "
3310 IF D$="....." THEN PRINT " "
3320 IF D$="....." THEN PRINT " "
3330 IF D$="....." THEN PRINT " "
3340 IF D$="....." THEN PRINT " "
3350 IF D$="....." THEN PRINT " "
3360 IF D$="....." THEN PRINT " "
3370 RETURN
3380 REM ..COPYING
3390 INPUT "COPIES? Y/N ";X$
3400 IF X$<>"Y" THEN GO TO 3050
3410 INPUT "HOW MANY? ";X
3420 FOR I=1 TO X: COPY : LPRINT
3430 LPRINT : NEXT I
3440 INPUT "MENU? Y/N ";X$
3450 IF X$<>"Y" THEN GO TO 3000

```

```

3100 REM ..MENU
3110 CLS
3120 PRINT "WHAT'S YOUR PLEASU
3130 CHOOSE BY NUMBER, "
3140 PRINT "1. MORSE CODE
3150 2. ENCODE MESSAGE
3160 3. DECODE MESSAGE
3170
3180 INPUT X
3190 IF X=1 THEN CLS : GO TO 100
3200 IF X=2 THEN CLS : GO TO 300
3210 IF X=3 THEN CLS : GO TO 500
3220 REM ..INTRO
3230 PRINT "MEET MR. MORSE
3240
3250 PRINT "WITH THIS PROGRAM YO
3260 U CAN LIST THE CODE, SEND A MES
3270 SAGE IN CODE"
3280 PRINT "OR DECODE ONE SENT T
3290 O YOU, THE FIRST TWO ARE EASY B
3300 UT DECODING"
3310 PRINT "TAKES SOME CARE, INS
3320 TRUCTIONS ARE GIVEN IN THAT SE
3330 CTION OF THE PROGRAM."
3340 PRINT "AS WITH MR. MORSE'
3350 S INVENTION THERE ARE NO PUNCTUA
3360 TION MARKS IN THIS PROGRAM."
3370 PRINT "PLEASE NOTE!! COMP
3380 UTER MUST BEIN CAPS LOCK MODE, E
3390 NTER CODES (M AND N) IN GRAPHIC
3400 S MODE."
3410 PRINT "HERE'S A CHALLENGE
3420 FOR YOU, SPARKS - MAKE UP YOU
3430 R OWN CODE"
3440 PRINT "AND SHARE IT WITH A
3450 FRIEND FOR TRULY SECRET COMMUNI
3460 CATIONS."
3470 PRINT AT 21,0;"ALL SET? PLE
3480 ASE ENTER.": INPUT X$
3490 GO TO 3100
3500 REM ..UDG
3510 LET Z=156
3520 FOR U=1 TO 2
3530 FOR X=0 TO 7
3540 READ Y: POKE USR CHR$ Z+X,Y
3550 : NEXT X
3560 LET Z=Z+1: NEXT U
3570 DATA 0,0,0,0,0,0,62,62: REM
3580 ..DAH
3590 DATA 0,0,0,0,0,0,24,24: REM
3600 ..DIT
3610 RETURN
3620 CLS : PRINT "
3630
3640
3650 PRINT AT 21,25;"GA 90"

```



SinLink Volume 10;; Numbers:: 4-6 April thru June -- 2nd Quarter

- 1991 Jun 18 11:19:12
28XX pnc "flp4_Sa916t4 xir",131,1,0,27,1,5,0,1,1
6.28 Sa91618a - D: SEATUG/SLIX QL diskette exchange? -
To: Ken Goods-T:- ..
6.27 Sa91617b - D: C68 for the QL, L.A./Cleveland-Freenet
Connection - From: Tim Swenson-703-820-6657..
6.26 Sa91617a - D: Sn916(2) SSUG-HL, Member List, & Cleveland
-Freenet Report - From: Richard Gintling-216-653-2170..
6.25 Sa91616b - D: ALF Meeting Report - Amiga Lattice C
Compiler FOR SALE - Contact: Bert Koehler-415-967-6901
ext. 284..
6.24 Sa91616a - D: TSCUG-(6) Meeting - Contributions (2) to
SLIX Library - Contact: George Mockridge-415-878-1773..
6.23 Sa91615b - D: Internet news.announce.newcomer files (5)
- Downloaded by: Bill Miller..
6.22 Sa91615a - D: CompuServe to Internet messages (2) -
From: Andy Hradesky-T:-CIS-72267,3572..
6.21 Sa91611a - D: \$15 SinLink Subscription Renewal Check &
Note - From: David Bennett-717-774-7531..
6.20 Sx91618a - D: Pn916.8, PRCC-HL, Contents (4) - From:
Ralph Vasko-412-379-8762..
6.19 Sa91608e - D: CompuServe to Internet messages (3) -
From: Andy Hradesky-T:-CIS-72267,3572..
6.18 Sa91608d - D: New Psion Handheld Computer - Contact:
anthony@csd4.csd.uum.edu, uum!uumcsd4!anthony..
6.17 Sa91608c - D: TS1000 Suntronics keyboard needed - By:
William Hurdlow-415-447-1520..
6.16 Sa91608b - D: C64 MORE Milpitas User Group Meeting -
Contact: Clark Murphy..
6.15 Sa91608a - D: TS1500 game software needed - By: David
Brown-415-533-7558..
6.14 Sa91607d - D: TS1000 & 5.25 in. 40-track drive needed -
By: Andy Hradesky-719-591-6773..
6.13 Ss91607c - D: \$15 SinLink Renewal Check & card - From:
Joan Kealy-T:- ..
6.12 Sa91607b - D: 6502 Emulator in QuickBasic! - By: Steve
Nichols-T:-HFS885-400-253-2295..
6.11 Sa91607a - D: Cleveland-Freenet-216-368-3888 info
request - To: Richard Gintling-216-653-2170..
6.10 Sx91606b - D: Bn916-2, TS-Bulletin-HL, Contents (4) -
From: Bill Hammer-T:- ..
6.09 Sa91606a - D: SinLink Jan. to Mar. 1991 and Diskettes
from Mark Martin ready! - To: Mark Wahl-415-643-1133..
6.08 Sa91605c - D: PC Unix Sig Meeting Report - Contact: Dan
Kionka-408-944-7941..
6.07 Sa91605b - D: SLIX Mailing (11) - Postage \$6.34..
6.06 Sa91605a - D: Disk Exchange, Re: Sa91503a - For: Mark
Martin..
6.05 Sx91604a - D: Mn915-7, SNUG-HL, Contents (4) - From:
Bill Heberlein-414-353-4522..
6.04 Sa91601d - D: Milwaukee Internet Access? - Contacts:
Bruce Welsh-414-463-9662..
6.03 Sa91601c - D: TSCE SIG/TCW Meeting Report (6) - By:
Bill Miller..
6.02 Sa91601b - D: Sinclair Z88 News - From: BUB00@livid.uib
.no..
6.01 Sa91601a - D: PC UNIX SIG Meeting Notice - From: UUCP:
cadence!dkionka..
5.28 Sa91531a - D: TS News from Computer Monthly Cn916-186
(4) - By: Bill Ferree-T:-CIS-73520,2674..
5.27 Sa91530a - D: TS User Report - By: Andy Hradesky-T:- ..

- 5.26 Sa91529a - D: SLIX File Server Project Files (3) -
From: Steve Nichols..
5.25 Sa91526a - D: 16K RAMPack for TS1500 needed - By: Bill
Phillips-408-737-7768..
5.24 Sa91525b - D: TS1000/PC3300 user report - By: Joe
Rampola-T:-CIS-70521,1145..
5.22 Sa91525a - D: Z88 Software Archive - From:
gingell@auris1@aurigate@mcnc.org..
5.21 Sa91521a - D: QL Exchange Diskettes, Free Internet
Access! - From: Mark Martin-517-655-2542..
5.20 Sa91520b - D: TSCUG Meeting Report - By: Bob Ormfelt-
415-369-9136..
5.19 Sx91520a - D: In9143-8, ISTUG-HL, Contents (7) - From:
Frank Davis-317-473-8031..
5.18 Sa91519a - D: TSCUG-3 Meeting - Contact: George
Mockridge-415-878-1773..
5.17 Sa91516d - D: 20MB 3.5-in. floppy \$Brien\$ prices: Drive
- \$849; Media - \$30 - Contact: Brien-408-435-9463..
5.17 Sa91516c - D: GUTSCE/SV Member Report - By: Michael
Furnan-408-245-3418..
5.16 Sx91516b - D: Cn912t1-4, Cn914t3-14, CATUG-HL: In916t4-
27, T/SNUG-HL: Contents (16+15+16) - From: Bob Suoger-
708-576-8068..
5.15 Sx91516a - D: Pn915-8, PRCC-HL, Contents (4) - From:
Ralph Vasko-412-379-8762..
5.14 Sa91515c - D: Sn913t1-Mailing-1-@-.2151 - From: Bill
Miller-408-253-3175..
5.13 Sa91515b - D: GUTSCE/SV Meeting & Call - To: Bob
Ormfelt..
5.12 Sa91515a - D: Sn913t1-Mailing-8-@-.1803 - From: Bill
Miller..
5.11 Sa91514b - D: Note to SinLink \$Past Due\$ Members/
Subscribers (2): Jess Wyder, David Bennett - From:
Bill Miller..
5.10 Sx91514c - D: Sn913t1 SinLink printing - \$38.50 @
.1145 - By: Bill Miller..
5.09 Sa91514a - D: Sn913t1_Mailing-Plan (23) - By: Bill
Miller..
5.08 Sx91513a - D: Bn915-6, TS-Bulletin-HL, Contents (7+5)-
From: Bill Hammer-T:- ..
5.07 Sa91511a - D: Z88 help needed - By: Grover Cleveland-
916-478-3153..
5.06 Sa91510a - D: TS2068 Modem info needed - By: Mike
Stephens-415-763-5265..
5.05 Sa91504b - D: TSCE SIG/TCW_6 Meeting Report - By: Bill
Miller..
5.04 Sa91504a - D: Z88, GNU, Emacs, C68, Floptical, Brien,
Insite News - From: Internet..
5.03 Sa91503a - D: QL Software Diskettes (5), UPDATE! Index,
QL Emulator, QL Com Pgm, QL BBS - From: Mark Martin-
517-655-2542..
5.02 Sa91501b - D: PC_UNIX_SIG_34 Meeting Report - By: Bill
Miller..
5.01 Sa91501a - D: Z88 help needed - By: John Peterson-
707-966-5081..
4.24 Sa91430b - D: TS News from Computer Monthly, Cn915-188
- By: Bill Ferree-T:-CIS-73520-2674..
4.23 Sx91430a - D: Mn914-10, SNUG-HL, Contents (4) - From:
Bill Heberlein-414-353-4522..
4.22 Sa91429b - D: FREE TS1000 - From: Kirk Corum-
408-253-8343..
4.21 Sa91429a - D: TS1000 System \$FOR SALE\$ - By: Lee Dodge
415-856-8348..
4.20 Sa91427a - D: Z88, Psion Organiser Sale News - From:
Internet..

POTENTIAL NEW AND OLD MEMBERS!

Please complete the application below with your \$9.00 to cover membership / subscription and send to:

TIMELINEZ
P.O. BOX 1312
PACIFICA, CA 94044

ATTN: GEORGE MOCKRIDGE

MAKE ALL CHECKS PAYABLE TO:

"GEORGE MOCKRIDGE"

User group meetings are always open to the public at no charge. Attendance is highly encouraged.

NAME: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____ WORK#: _____

HOW DID YOU HEAR ABOUT US?
FEST _____ COMPUTER STORE _____

NEWSPAPER/MAGAZINE _____

MEMBER/FRIEND _____

WORK WITH A COMPUTER AT YOUR JOB?
YES _____ NO _____ MAKE/MODEL _____

DO YOU OWN A COMPUTER? YES _____ NO _____
MAKE/MODEL (YOURS) _____

IS IT YOUR FIRST? YES _____ NO _____

COMPUTER EXPERIENCE (YEARS) _____ (MONTHS) _____

PROGRAMMING INTERESTS ARE?
BASIC _____ ASSEMBLY _____
FORTH _____ MACHINE CODE _____
PASCAL _____ C COMPILER _____

KNOWLEDGE: SOFTWARE _____ HARDWARE _____

LIST MAIN INTERESTS/ACTIVITIES
PROGRAMMING (BA,MC) _____ GRAPHICS _____
ENTERTAINMENT/GAMES _____ EDUCATION _____
BUSINESS APPLICATION _____ FINANCE _____

Mini File Server BBS (7F5005)

Supports: 300/1200 baud at 8,N,1
Terminal: VT52
Sysop: Steve Nichols
Phone#: (408) 253-2295

NOTICE

The Mini File Server BBS gives support for TIMEX and Sinclair on disc #10. SLIX is also available.

TIMEXsinclair Cambridge

Support for:
-TIMEXsinclair's
1000/1500/2068
-Cambridge Z88
-Sinclair's
Spectrum, +128K
and QL

President: George Mockridge
Host: Walt Johnson

Meetings: Third Sunday of each month, 1:00 pm
Peninsula Hospital (Sierra Room)
1783 El Camino Real
Burlingame, CA

Dates: Jan. 20, '91 Apr. 21, '91 Jul. 21, '91
Feb. 17, '91 May 19, '91 Aug. 18, '91
Mar. 17, '91 Jun. 16 '91 Sep. 15, '91

GUTSEE/SV

TIMEXsinclair Cambridge Emacs
Silicon Valley Users (408) 253-3175
6675 Clifford Drive
Cupertino, CA 95410-4530

Host: Bill Miller

Meetings: Third Wednesday of each month - 7:30 pm
CALL FOR MEETING LOCATION

Projects: Organizing Sinclair Information

Dates: Jan. 16, '91 Apr. 17, '91 Jul. 17, '91
Feb. 20, '91 May 15, '91 Aug. 21, '91
Mar. 20, '91 Jun. 19, '91 Sep. 18, '91

TAS-BAY, INC.

Tampa and Suncoast Bay Area
Microcomputer Users' Group, Inc.

Hosts: Eric Best, George Featherman, Warren Reed

Meetings: Second Saturday of each month at 7:30 pm
Beach Federal Savings and Loan
7777 North Seminole Blvd.
Seminole, FL

Dates: Jan. 12, '91 Apr. 13, '91 Jul. 13, '91
Feb. 09, '91 May 11, '91 Aug. 10, '91
Mar. 09, '91 Jun. 08, '91 Sep. 14, '91

TSCE_Sig/TCB

TIMEXsinclair Cambridge/Emacs S.I.G
of The Computer Workshop
6675 Clifford Drive
Cupertino, CA 95014-4530
(408) 253-3175

SIG Host: Bill Miller

Meetings: First Saturday of the month at 10:00 am
Stanford University
Jordan Hall, Building 380 (in the Quad)
Room 380C (downstairs)

Dates: Jan. 5, '91 Apr. 6, '91 Jul. 6, '91
Feb. 2, '91 May 4, '91 Aug. 3, '91
Mar. 2, '91 Jun. 1, '91 Sep. 7, '91

For all the TIMEXsinclair 2068 owners that have the Portuguese disc-drive system (also known as the Zebra drives, TMX drives or the FDD-3000 system), a special treat awaits you. Just when you thought the FDD Express (the newsletter that supported this disc operating system) was forever lost, along comes The FDD-Newsletter. Here, Jay S. Siegel has started his own publication to support the TIMEX Operating System known as TOS. TOS is the original Disc Operating System for the TS2068 that was developed here in the U.S. and marketed abroad. With the unique design of the disc-drive system, the disc controller board also doubles as a 64K Z80 based CPU computer that will run CP/M 2.2.

This, plus much more information will be within Jay's newsletter. For those interested, Jay asks you to send \$10.00 to:

Jay S. Siegel
1274 49th Street #821
Brooklyn, NY 11219-3091
(718) 853-8128

One small inconvenience to TMX/FDD-3000 users is the lack of an NMI save button. Since TOS is written over the address space that would contain the NMI, it is not possible to have such a feature. This plus the lack of saving Spectrum programs onto disc has its draw-backs.

According to Mike Finn, Nazir Pastoon has offered to convert the TMX/FDD disc interface to accomodate a small switch that will allow TS2068 users to save Spectrum programs to disk. Do not get this confused with the NMI save option. All this small switch (you **MUST** have a Spectrum emulator in the works via the cartridge port, the expansion slot, or a magnetic switch) will do is allow the connection of the disc-drive system to a 2068 emulating a Spectrum. You will still need to alter the Spectrum program to run off the drives.

For more detailed information, write to:

Nazir Pastoon
940 Beau Drive, Apt. 204
Des Plaines, IL 60016
(708) 439-1679 (evenings)

Nazir is charging \$40.00 to perform the hardware modification. He also includes a disc containing Spectrum programs and demos.

On another topic, "From Out Of 'THE ASHES' Rises....."

ZXir QLive Alive!

This is the official publication to T/SNUG. The national group which will replace SNUG. A full featured article will be covered in the next issue of TIMELINEZ.

For more info, call 708-837-7957

Managing Editor: Andy Hradesky
Editors:
TSCPU: George Mockridge
GUTSCE: Bill Miller
Mile_H: Curt Carlson

This TIMELINEZ Newsletter is a joint publication of four TIMEX Sinclair User Groups in the US.

TIMELINEZ publication will cover three issues for the year 1991. Starting in 1992, the publication rate will increase up to four/six issues (or as finances permit).

Back issues of TIMELINEZ is available. Contact your editor at:

975 Nolte Drive West
Colorado Springs, CO 80916
(719) 591-6773

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